	Application No.	Applicant(s)	
Notice of Allowability	09/943,308 Examiner	WALENTY ET AL.  Art Unit	
•	Balana Tana		
The MAILING DATE of this communication appe	Dalena Tran	3661   orrespondence addre	
All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	or other appropriate communication IGHTS. This application is subject to	will be mailed in due of	course. THIS
1. This communication is responsive to 8/4/04.			
2. A The allowed claim(s) is/are 12, and 16-20 (now renumbere	<u>ed as 1-6)</u> .		
3. The drawings filed on 31 August 2001 are accepted by the	Examiner.		
<ul> <li>4. Acknowledgment is made of a claim for foreign priority ur</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have</li> <li>2. Certified copies of the priority documents have</li> <li>3. Copies of the certified copies of the priority do</li> <li>International Bureau (PCT Rule 17.2(a)).</li> </ul>	e been received. e been received in Application No		ion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the req	uirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) I including changes required by the Notice of Draftspers	son's Patent Drawing Review (PTO-	948) attached	
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	,		
(b)  including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in the C	Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			back) of
7. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	ratent Application (PTC	) 152 <u>)</u>
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• • • • • • • • • • • • • • • • • • • •	-132)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dat	te .	
Paper No./Mail Date4.   Examiner's Comment Regarding Requirement for Deposit	8. ⊠ Examiner's Stateme	ent of Reasons for Allo	wance
of Biological Material	9.  Other	1901 01	
		TAN Q. NGUYEN	A/

U.S. Patent and Trademark Office PTOL-37 (Rev. 1-04)

**Notice of Allowability** 

Part of Paper No./Mail Date 20040928

Application/Control Number: 09/943,308

Art Unit: 3661

## **EXAMINER'S STATEMENT OF REASONS FOR ALLOWANCE**

- 1. This communication is an Examiner's reasons for allowance in response to application filed on 8/31/01, assigned serial 09/943308 and title "Adaptive compensation method for an anti-lock brake control".
- 2. The following is the Examiner's statement of reasons for the indication of allowable subject matter:

After carefully reviewing the application and the additional search of all the possible areas relevant to the present application, a set of related prior art references has been found, but those prior art references are not deemed strong to make the application unpatentable. Thus, it is found that the application is now in condition for allowance.

Although the references found disclose several claimed limitations, none of the references discloses a method of operation for a vehicle braking system including a driver activated brake pedal, a hydraulic brake pressure modulator, and an anti-lock brake control that activates the brake pressure modulator to modulate vehicle braking upon detection of an insipient wheel lock condition, the method comprising steps: adaptively adjusting a brake hydraulic pressure control parameter of anti-lock brake control when a condition of degraded braking effectiveness is identified so as to compensate for the identified condition; and wherein the condition of degraded braking effectiveness is determined by computing a rear speed difference between at least one front tire and at least one rear tire and comparing it to a pedal position dependent threshold value (claim 12); wherein the anti-lock brake control release and then reapplies brake pressure at a determined apply rate upon detection of an insipient wheel lock condition, and the step of adaptively adjusting a brake control parameter includes adjusting the

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determined apply rate in a manner to provide an increased rate of brake pressure application (claim 16); also, the step of adaptively adjusting a brake hydraulic pressure control parameter includes steps of compensating the estimated road surface coefficient of friction for error due to the identified condition of degraded braking effectiveness, and determining a brake apply rate based on the compensated estimates of road surface coefficient of friction and the measure of braking effectiveness degradation (claim 19).

Claims 12, and 16-20, are allowable over the prior art of record.

3. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dalena Tran whose telephone number is 703-308-8223. The examiner can normally be reached on M-F (7:30 AM-5:30 PM), off every other Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas Black can be reached on 703-305-8233. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/dt

September 28, 2004